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PLAN SUBMITTER'S CHECKLIST

FOR EROSION AND SEDIMENT CONTROL PLANS

Please fill in all blanks and reference the plan sheets/pages where the information may be found, where appropriate, or write N/A by items that are not applicable.

<u>GENERAL</u>	2	
Plan Submi	ssion Date 01/31/2022	
Project Nar	ne_Apple Grove Solar	
	nit Number	
Site Plan N	umber	
Site Addres	s <u>9840 Jefferson Highway, Mineral, VA 23117</u>	7
	Energix EPC US, LLC	Phone Number <u>703-373-7346</u>
	Legal Address 2311 Wilson Blvd, Suite 640	
	S Property Inc.	Phone Number
	esigner Sophia Huang, P.E.	Phone Number 703-215-8462
General Co	ntractor Energix EPC US, LLC	Phone Number <u>703-373-7346</u>
X	Complete set of plans- Include all sheets pertainin activities impacting erosion and sediment control are	
	☒ Existing conditions	
	☑ Demolition	
	☒ Site grading	
	▼ Erosion and sediment control	
N/A	Storm sewer systems	
	✓ Stormwater management facilities	
	☑ Utility layout	
N1/A	☐ Consider and off site horses and discovered to the state of the boundary of	1 ECC PI
IN/A	On-site and off-site borrow and disposal areas th	at do not have separate approved ESC Plans
X	<u>Professional's seal</u> - The designer's original seal, sign of each Narrative and each set of Plan Sheets. A face	
X	Number of plan sets - Two sets of ESC Plans should submitted plans.	d be submitted. The DEQ office will retain all
N/A	<u>Variances</u> - Variances requested at the time of plan 840-50 of the <i>Virginia Erosion and Sediment Contro</i>	
X	Certified Responsible Land Disturber (RLD) - A construction, from the initial land disturbance throuproject RLD must be provided before any land dismanner if the RLD changes during the course of the	igh final site stabilization. The name of the sturbance may begin. Notify DEQ in a timely
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PLANS DA	TED: 01/31/2022	

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CHECKLIST PREPARER I certify that I am a professional in adherence to all minimum standards and requirements pertaining to the practice of that profession in accordance with Chapter 4 (§ 54.1-400 et seq.) of Title 54.1 of the Code of Virginia and attendant regulations. By signing this checklist I am certifying that this document and all attachments are, to the best of my knowledge and belief, true, accurate, and complete.
SIGNATURE
PRINTED NAME Sophia Huang
QUALIFICATIONS Professional Engineer
DATE 01/31/2022

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N	P	١F	T.	₹A	Т	Τ	V	Е

Please reference plan sheet numbers where the information may be found.

- <u>C2-200</u> <u>Project description</u> Briefly describe the nature and purpose of the land-disturbing activity. Provide the area (acres) to be disturbed.
- 21-100 to C1-103 Existing site conditions A description of the existing topography (% slopes), ground cover, and drainage (on-site and receiving channels).
- 1-100 to C1-103 Adjacent areas A description of all neighboring areas such as residential developments, agricultural areas, streams, lakes, roads, etc., that might be affected by the land disturbance.
- C1-100 to C1-102 Off-site areas Describe any off-site land-disturbing activities that may occur (borrow sites, disposal areas, easements, etc.). Identify the Owner of the off-site area and the entity responsible for plan review. Include a statement that any off-site land-disturbing activity associated with the project must have an approved ESC Plan. Submit documentation of the approved ESC Plan for each of these sites.
- WM Narrative, Soils Provide a description of the soils on the site, giving such information as soil name, mapping unit, erodibility, permeability, surface runoff, and a *brief* description of depth, texture and soil structure. Show the site location on the Soil Survey, if it is available. Include a plan showing the boundaries of each soil type on the development site.
 - <u>C2-200</u> <u>Critical areas</u> A description of areas on the site that have potentially serious erosion problems or that are sensitive to sediment impacts (e.g., steep slopes, watercourses, wet weather / underground springs, etc.).
- 21-100 to C2-203 Erosion and sediment control measures A description of the structural and vegetative methods that will be used to control erosion and sedimentation on the site. Controls should satisfy applicable minimum standards and specifications in Chapter 3 of the 1992 Virginia Erosion and Sediment Control Handbook (VESCH) or more stringent local requirements.
 - <u>Management strategies / Sequence of construction</u> Address management strategies, the sequence of construction, and any phasing of installation of ESC measures.
 - <u>C2-200</u> <u>Permanent stabilization</u> A brief description, including specifications, of how the site will be stabilized after construction is completed.
 - <u>Maintenance of ESC measures</u> A schedule of regular inspections, maintenance, and repair of erosion and sediment control structures should be set forth.
- 34-000 to C4-300, Stormwater management considerations Will the development of the site cause an increase in peak runoff rates? Will the increase in runoff cause flooding or channel degradation downstream? Describe the strategy to control stormwater runoff, including during construction.

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- 2-201 to C2-202 Specifications / Detail Drawings for erosion and sediment control measures For each erosion and sediment control measure employed in the plan, include, at a minimum, the detail from the standard and specification in the VESCH or more stringent local requirements. Include any approved variances or revisions to the standards and specifications.
 - <u>Specifications for stormwater and stormwater management structures</u> Provide specifications for stormwater and stormwater management structures, i.e., pipe materials, pipe bedding, stormwater structures.

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SITE PLAN

Please reference plan sheet numbers where the information may be found.

- <u>CO-000</u> <u>Vicinity map</u> A small map locating the site in relation to the surrounding area. Include any landmarks that might assist in locating the site.
- ALL SITE SHEETS

<u>Indicate north</u> - The direction of north in relation to the site.

N/A Off-site areas - Include any off-site land-disturbing activities (e.g., borrow sites, disposal areas, etc.) not covered by a separate approved ESC Plan.

- 22-001 to C2-003 <u>Legend</u> Provide a complete listing of all ESC measures used, including the VESCH uniform code symbol and the standard and specification number. Include any other items necessary to identify pertinent features in the plan.
- 21-100 to C1-103 Property lines and easements Show all property and easement lines. For each adjacent property, list the deed book and page number and the property owner's name and address.
- 21-100 to C1-103 Existing vegetation Show the existing tree lines, grassed areas, or unique vegetation.
- 1-100 to C1-103 Limits of clearing and grading Delineate all areas that are to be cleared and graded.
- :2-000 to C2-101 Protection of areas not being cleared Fencing or other measures to protect areas that are not to be disturbed on the site.
 - N/A <u>Critical areas</u> Note all critical areas on the plan.
- 1-100 to C1-103 Existing contours Show the existing contours of the site.
- 3-000 to C3-003 Final contours and elevations Show changes to the existing contours, including final drainage patterns.
- 3-000 to C3-003 Site development Show all improvements such as buildings, parking lots, access roads, utility construction, etc. Show all physical items that could affect or be affected by erosion, sediment, and drainage.
- 2-000 to C2-101, Location of practices The locations of erosion and sediment control and stormwater management practices used on the site. Use the standard symbols and abbreviations in Chapter 3 of the VESCH.
- 4-000 to C4-103, WM Narrative

 Adequate Conveyances Ensure that stormwater conveyances with adequate capacity and adequate erosion resistance have been for provided all on-site concentrated stormwater runoff. Off-site channels that receive runoff from the site, including those receiving runoff from stormwater management facilities, must be adequate. Increased volumes of sheet flows must be diverted to a stable outlet, adequate channel, pipe or pipe system, or a stormwater management facility.
 - Provide exhibits showing the drainage divides, the direction of flow, and the size (acreage) of each of the site drainage areas that discharge runoff off-site, both existing and proposed.

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	■ Ensure that Min	nimum Standard 19 is	-	rom these dramage areaste receiving channel, incl	
	☐ Provide calcular ☐ Ensure that in channel, pipe of	ations for the design of creased volumes of r pipe system, or to a	of each permanent storm		
34-200 <u>to C4-</u> 202, 3WM Narrative			conveyances - For each gn calculations, as appli	permanent stormwater cable:	conveyance
N/A N/A	X T _C calculation/ X Locality IDF c X Composite run X Peak runoff calculation/ X Stormwater colculation/ X Culvert design	nomograph urve off coefficient or RC culations nveyance channel de d storm sewer systen de Line if any pipe in calculations	sign calculations n design calculations	own n 90% full for a 10-year s	storm
2-001 <u>to C2-0</u> 03, WM Narrative		for Conveyances - Ir mwater conveyance		low for all stormwater co	onveyances
	(RCP, CMP, HDP	E, etc.) is not called		ept roof drains. If the tethe most conservative piacy calculations.	
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MINIMUM STANDARDS Plan Sheet

PLANS DATED: __01/31/2022

Minimum Standards - All Minimum Standards must be addressed.

Ye	s No	NA	
	() () () () () ()	[] MS [] [] [] [] []	Have temporary and permanent stabilization been addressed in the narrative? Are practices shown on the plan? Temporary and permanent seed specifications? Lime and fertilizer? Mulching? Blankets/Matting? Pavement/Construction Road Stabilization?
Ø	[]	[] MS	2 Has stabilization of soil stockpiles, borrow areas, and disposal areas been addressed in the narrative and on the plan?
×	[]		Have sediment trapping measures been provided?
×	[]	[] MS	3 Has the establishment and maintenance of permanent vegetative stabilization been addressed?
[3]	[]	[] MS	4 Does the plan specifically state that sediment-trapping facilities shall be constructed as a first step in land-disturbing activities?
N	[]	[] MS	5 Does the plan specifically state that stabilization of earthen structures is required immediately after installation? Is this noted for each measure on the plan?
Ø		[] MS	6 Are sediment traps and sediment basins specified where needed and designed to the standard and specification?
[3]		[] MS	7 Have the design and temporary/permanent stabilization of cut and fill slopes been adequately addressed? Is Surface Roughening provided for slopes steeper than 3:1?
Ŋ	[]	[] MS	8 Have adequate temporary or permanent conveyances (paved flumes, channels, slope drains) been provided for concentrated stormwater runoff on cut and fill slopes?
[]	[]	MS MS	9 Has water seeping from a slope face been addressed (e.g., subsurface drains)?
×	[]	[] MS	10 Is adequate inlet protection provided for all operational storm drain and culvert inlets?
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Yes No NA

Ø	[]	[]	MS-11	Are adequate outlet protection and/or channel linings provided for all stormwater conveyance channels and receiving channels? Is there a schedule indicating:
X X	[]	[]		Dimensions of the outlet protection? Lining? Size of riprap? Cross section and slope of the channels? Type of lining? Size of riprap, if used?
	×	[]	MS-12	Are in-stream protection measures required so that channel impacts are minimized?
[]	[]	M	MS-13	Are temporary stream crossings of non-erodible material required where applicable?
[]	[]	M	MS-14	Are all applicable federal, state and local regulations pertaining to working in or crossing live watercourses being followed?
[]	[]	Ø	MS-15	Has immediate restabilization of areas subject to in-stream construction (bed and banks) been adequately addressed?
[] [] []	[] [] []			Have disturbances from underground utility line installations been addressed? No more than 500 linear feet of trench open at one time? Effluent from dewatering filtered or passed through a sediment-trapping device? Proper backfill, compaction, and restabilization?
[]		[]		Is the transport of soil and mud onto public roadways properly controlled? (i.e., Construction Entrances, wash racks, transport of sediment to a trapping facility, cleaning of roadways at the end of each day, no washing before sweeping and shoveling)
<u>K</u> K		[]		Has the removal of temporary practices been addressed? Have the removal of accumulated sediment and the final stabilization of the resulting disturbed areas been addressed?
X	[]			Are properties and waterways downstream from development adequately protected from sediment deposition, erosion, and damage due to increases in volume, velocity and peak flow rate of stormwater runoff? Have adequate channels been provided on-site?

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